Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade K			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	SD	SCI.K.1.2.a	Students are able to use scientific thinking skills of observing and communicating.
Finding the Center of Gravity Using Rulers	SD	SCI.K.1.2.c	Use non-standard units of measurement to compare objects.
Finding the Center of Gravity Using Rulers	SD	SCI.K.2.2.a	Students are able identify things that move.
Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 1			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	SD	SCI.1.1.2.a	Use scientific thinking skills of observing, communicating, and comparing.
Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 2			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	SD	SCI.2.1.2.a	Use scientific thinking skills of observing, communicating, classifying, and comparing.
Finding the Center of Gravity Using Rulers	SD	SCI.2.1.2.c	Make predictions based on observations rather than random guesses.
Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 3			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	SD	SCI.3.1.1.b	Explain science as a process involving asking and answering questions.
Finding the Center of Gravity Using Rulers	SD	SCI.3.1.2.c	Use appropriate metric measurement to make predictions.

Finding the Center of Gravity Using Rulers	SD	SCI.3.1.2.d	Use appropriate metric measurement to ask questions.
Finding the Center of Gravity Using Rulers	SD	SCI.3.1.2.e	Use appropriate metric measurement to plan investigations.
Finding the Center of Gravity Using Rulers	SD	SCI.3.1.2.g	Use appropriate metric measurement to collect, record, chart, and/or graph data.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.3.1.1.b	Explain science as a process involving asking and answering questions.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.3.1.2.c	Use appropriate metric measurement to make predictions.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.3.1.2.d	Use appropriate metric measurement to ask questions.
Changing the Center of Gravity Using Moment Arms	SD	SCI.3.1.1.b	Explain science as a process involving asking and answering questions.
Changing the Center of Gravity Using Moment Arms	SD	SCI.3.1.2.a	Use investigations in science to acquire knowledge.
Changing the Center of Gravity Using Moment Arms	SD	SCI.3.1.2.c	Use appropriate metric measurement to make predictions.
Changing the Center of Gravity Using Moment Arms	SD	SCI.3.1.2.d	Use appropriate metric measurement to ask questions.
Changing the Center of Gravity Using Moment Arms	SD	SCI.3.1.2.e	Use appropriate metric measurement to plan investigations.
Changing the Center of Gravity Using Moment Arms	SD	SCI.3.1.2.g	Use appropriate metric measurement to collect, record, chart, and/or graph data.
Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 4			
Activity/Lesson	**State**	**Standards**	
Finding the Center of Gravity Using Rulers	SD	SCI.4.1.1.b	Describe science as the process of asking and answering questions and comparing the results to what is already known.
Finding the Center of Gravity Using Rulers	SD	SCI.4.1.2.c	Use appropriate metric measurement to make predictions.
Finding the Center of Gravity Using Rulers	SD	SCI.4.1.2.d	Use appropriate metric measurement to ask questions.

Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers	SD	SCI.4.1.2.f	Use appropriate metric measurement to plan investigations.
Finding the Center of Gravity Using Rulers	SD	SCI.4.1.2.h	Use appropriate metric measurement to collect, record, chart, and/or graph data.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.4.1.1.b	Describe science as the process of asking and answering questions and comparing the results to what is already known.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.4.1.2.a	Use investigations in science to acquire knowledge.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.4.1.2.c	Use appropriate metric measurement to make predictions.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.4.1.2.d	Use appropriate metric measurement to ask questions.
Finding the Center of Gravity Using Plumb Lines	SD	SCI.4.1.2.f	Use appropriate metric measurement to plan investigations.
Changing the Center of Gravity Using Moment Arms	SD	SCI.4.1.1.b	Describe science as the process of asking and answering questions and comparing the results to what is already known.
Changing the Center of Gravity Using Moment Arms	SD	SCI.4.1.2.c	Use appropriate metric measurement to make predictions.
Changing the Center of Gravity Using Moment Arms	SD	SCI.4.1.2.d	Use appropriate metric measurement to ask questions.
Changing the Center of Gravity Using Moment Arms	SD	SCI.4.1.2.e	Form a simple hypothesis.
Changing the Center of Gravity Using Moment Arms	SD	SCI.4.1.2.h	Use appropriate metric measurement to collect, record, chart, and/or graph data.
Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 5			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	SD	SCI.5.1.2.b	Use appropriate metric measurement to make observations.
Jet Propulsion	SD	SCI.5.1.2.e	Use appropriate metric measurement to ask questions.
Jet Propulsion	SD	SCI.5.1.2.l	Define variables that must be held constant in a specific experimental situation.
Vectoring	SD	SCI.5.1.2.b	Use appropriate metric measurement to make observations.

Vectoring	SD	SCI.5.1.2.c	Use appropriate metric measurement to make predictions.
Vectoring	SD	SCI.5.1.2.e	Use appropriate metric measurement to ask questions.
Vectoring	SD	SCI.5.1.2.l	Define variables that must be held constant in a specific experimental situation.

Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	SD	SCI.6.6.L.1.2.b	Students are able to explain the importance and scientific use of a classification system and uniform scientific communication
Vectoring	SD	SCI.6.6.N.2.1.a.4	Construct and interpret graphs from data to make predictions.
Vectoring	SD	SCI.6.6.L.1.2.b	Students are able to explain the importance and scientific use of a classification system and uniform scientific communication

Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Vectoring	SD	SCI.7.7.N.2.1.e	Interpret to make predictions and/or justify conclusions.
Vectoring	SD	SCI.7.7.N.2.1.k	Analyze the benefits and potential of scientific investigations.

Exploring the Extreme			
2005 Science			
Content Standards			
South Dakota Science			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Jet Propulsion	SD	SCI.8.8.N.2.1.c	Control variables to test hypotheses by repeated trials and by identifying sources of experimental error.
Vectoring	SD	SCI.8.8.N.2.1.c	Control variables to test hypotheses by repeated trials and by identifying sources of experimental error.
Vectoring	SD	SCI.8.8.N.2.1.d	Interpret data to justify predictions or conclusions.